



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,115	02/25/2002	Jeff Solum	100.255US01	6841	
34206	7590 10/12/2005		EXAMINER		
FOGG AND ASSOCIATES, LLC			NGUYEN,	NGUYEN, THUAN T	
P.O. BOX 581339 MINNEAPOLIS, MN 55458-1339			ART UNIT	PAPER NUMBER	
			2685		
			DATE MAILED: 10/12/200	DATE MAILED: 10/12/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on		Application No.	Applicant(s)				
THUAN T. NGUYEN 2855 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the particle for noly specified above is lass than thirty (30) days, and the size (30) days with the considered time of the particle of the particle of the particle of the particle of the production of the particle of the particle of the particle of the particle period for reply specified above is lass than thirty (30) days, and the particle of the particle of the particle of the particle period for reply applied by the particle period for reply applied by the particle period for reply within the standard period for reply applied the particle period for reply within the standard period for reply applied period for reply within the standard period for reply applied the particle period	Office Action Commons	10/084,115	SOLUM, JEFF				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edutations to time may be available under the provision of 3 CFR 1 136(s). In no event, however, may a reply be timely filed Edutation to time may be available under the provision of 3 CFR 1 136(s). In no event, however, may a reply be timely filed in the pand for reply appeal and septic of reply is specified above, the maximum stationy priod will adulty priod will expire (50) MoNTH's form the mailing date of this communication for reply is specified above, the maximum stationy priod will apply and will expire (50) MoNTH's form the mailing date of this communication for reply is specified for reply will, by statute, cause the application to secome AAANDONED (35 U.S.C.§ 133). Falsure to reply within the set or extended period for reply will, by statute, cause the application to secome AAANDONED (35 U.S.C.§ 133). Falsure to reply within the set or extended period for reply will, by statute, cause the application to secome AAANDONED (35 U.S.C.§ 133). Falsure to reply within the set or extended period for reply will, by statute, cause the application to secome AAANDONED (35 U.S.C.§ 133). Falsure to reply within the set or extended period for reply will, by statute, cause the application to secome AAANDONED (35 U.S.C.§ 133). Falsure to reply within the set or extended period for reply will, by statute, cause the application to extended period for reply will, by statute, cause the application for reply second for repl	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. after SIX (9) MONTHS from the maling date of this communication. If the proof to moyly specified above, the maximum stealory protect will apply set will expire SIX (9) MONTHS from the maling date of this communication. If NO period for regly is appelled above, the maximum stealory protect will apply set will expire SIX (9) MONTHS from the maling date of this communication. If NO period for regly is appelled above, the maximum stealory protect will apply set will expire SIX (6) MONTHS from the maling date of this communication. Any reply revised by the Office delt than three months and the maling date of this communication, even if timely floor, any reduces any sealors are application in sin condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) □ Claim(s) is/are allowed. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 7) □ Claim(s) is/are allowed. 8) □ Claim(s) is/are allowed. 8) □ Claim(s) is/are allowed. 10) □ The specification is objected to by the Examiner. 4) □ The specification is objected to by the Examiner. 10) □ The drawing(s) flied on 25 February 2002 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abovance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3 □ Copies o	<u> </u>	1					
THE MAILING DATE OF THIS COMMUNICATION. Edentained or biam may be available under the provision of 37 CPR 1.13(a). In no event, however, may a reply be limited from the mailing date of this communication. If NO period for reply is specified above, the macrimic actions. If NO period for reply is specified above, the macrimic actions. Failure to reply within the set or estended period for reply will be set set statutory minimum of thisty, (30) days will be considered stime). Failure to reply within the set or estended period for reply will, by statute, cause the application to become ABANDONED (38 U.S. C. § 133). Any reply received by the Office date when three amonths after the mailing date of this communication, even if timely filled, may reduce any exemple places term adjustment. See 37 CPR 1.704(b). Status 1) Responsive to communication(s) filled on	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
1) Responsive to communication(s) filed on	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 February 2002 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	Status						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to post to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 February 2002 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	1) Responsive to communication(s) filed on	_ ·					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)	•—	This action is FINAL . 2b)⊠ This action is non-final.					
A) Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 25 February 2002 is/are: a) ☑ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 25 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some *c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 25 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	Disposition of Claims						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 25 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	4)⊠ Claim(s) <u>1-36</u> is/are pending in the application.						
6) Claim(s) 1-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 February 2002 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Toritsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. Paper No(s)/Mail Date.	4a) Of the above claim(s) is/are withdrawn from consideration.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on 25 February 2002 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Altachment(s) Paper No(s)/Mail Date	5) Claim(s) is/are allowed.						
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 25 February 2002 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 25 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date							
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 25 February 2002 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date	8) Claim(s) are subject to restriction and/or	r election requirement.	•				
10) ☐ The drawing(s) filled on 25 February 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date	Application Papers						
10) ☐ The drawing(s) filled on 25 February 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date	9) The specification is objected to by the Examine	er.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) Paper No(s)/Mail Date. Paper No(s)/Mail Date.							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) Attachment(s) Paper No(s)/Mail Date. Paper No(s)/Mail Date.							
Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) A I ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	Priority under 35 U.S.C. § 119						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date	 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date	See the attached detailed Office action for a list of the certified copies not received.						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date	Attachment(s)						
2) Unotice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SR/08) 5) Notice of Informal Patent Application (PTO-152)	te						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) S) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date Other:	itent Application (PTO-152)						

レノ

Art Unit: 2685

DETAILED ACTION

Claim Rejections - 35 USC 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Kintis et al. (U.S. Patent No. 6,535,720 B1).

Regarding claim 1, Kintis discloses "a wireless distribution system, comprising: a plurality of remote units distributed in a coverage area to receive wireless signals; a plurality of input ports to receive signals comprising the wireless signals provided by the plurality of remote units; a plurality of input power monitors operatively connected to one or more of the plurality of input ports to determine power levels of signals received at the input ports; a plurality of variable gain controllers to control the gain of signals received at the one or more of the plurality of input ports in response to a plurality of corresponding control signals; a node to combine a plurality of signals from the plurality of input ports; and a controller to provide the plurality of corresponding control signals to individually control each of the variable gain controllers" (Fig. 1, and col. 1/line 59 to col. 3/line 57).

Application/Control Number: 10/084,115

Art Unit: 2685

As for claims 2-4, Kintis discloses "wherein the controller provides control signals based on a weighting function"; "wherein the weighting function is proportional to power levels determined by the input power monitors such that a combined power does not exceed a predetermined level"; and "comprising a combined power monitor to determine the combined power level of signals combined at the node" (col. 3/lines 20-31).

As for claims 5-7, Kintis further discloses "wherein the plurality of input power monitors are operatively connected to the plurality of input ports to determine power levels of signals received at the input ports so that an upstream combined signal level does not exceed a predetermined level"; "wherein the signals received at the input ports comprise a frequency spectrum that is digitized for distribution over the wireless distribution system"; and "wherein the digitized wireless spectrum is transmitted, at least in part, over a fiber optic transmission line" (Figs. 1 & 2, and col. 5/line 40-67 for digital based power control system, with power detection system as noted in col. 4/lines 10-58, with a plurality of reference signals setting for controlling the power levels of the wireless digital distribution system).

As for claims 8 and 9, Kintis discloses "wherein one or more of the variable gain controllers comprises a filter" and "wherein the filter comprises an adaptive filter" (col. 6/lines 15-19 for a multi-carrier filter 113 regarding as an adaptive filter for filtering multi-carrier signals).

As for claim 10, Kintis discloses "comprising a transmission link to transmit the signals combined at the node to at least one upstream node where the combined signals may be further combined with other signals" (Fig. 1 at combined upstream node 30, refer to col. 3/lines 1-19).

Art Unit: 2685

As for claim 11, Kintis shows further "comprising at least one combined power monitor operatively connected to an output of the upstream node to monitor the power level of the signals combined at the at least one upstream node and at least one variable gain controller to control the power level of signals input to at least one upstream node such that the power level at the upstream node does not exceed a predetermined level" (col. 4/lines 10-col. 5/line 8, with the power limiter within the power detection system for monitoring and detecting the power levels under the comparison between active reference power levels).

Regarding claims 12-14, Kintis discloses "a method for controlling the signal levels of a wireless distribution system, the method comprising: receiving wireless signals at a plurality of remote units distributed in a coverage area; providing signals from the remote units to a plurality of input ports; monitoring input power levels of the signals received at one or more of the plurality of input ports; combining signals from the plurality of input ports at a node; determining individual control signals for each of the input ports based on a weighting function that is proportional to the monitored input power levels such that the combined power does not exceed a predetermined level, and gain controlling the signals received at the input ports in response to the control signals"; "comprising monitoring the combined power level of signals combined at the node" and "a method for controlling the signal levels of a wireless distribution system, the method comprising: receiving wireless signals at a plurality of remote units distributed in a coverage area; providing signals from the remote units to a plurality of input ports; monitoring the input power level of the signals received at each of the input ports; controlling the gain of the signals received at each of the input ports in response to a control signal; combining the signals from the plurality of input ports at a node; monitoring power levels Application/Control Number: 10/084,115

Art Unit: 2685

of the combined signals; determining weights for a weighting function that is proportional to power received at each input port, as determined by the input power monitors such that the power of the combined signals does not exceed a predetermined level; and providing the control signals to each input port based on the weighting function" (refer to claims 1-11 above for same features in the system claims as in the method claims).

Regarding claims 15-17 and 28-22, these claims for "a wireless distribution system, comprising: a plurality of remote units distributed in a coverage area to receive wireless signals and to provide the wireless signals through the distribution system to one or more input ports; a plurality of input power monitors operatively connected to the one or more input ports to determine power levels of the wireless signals received at the input port; a plurality of variable gain controllers to control the gain of the wireless signals received at the one or more input ports based on a predetermined threshold wherein a saturation level is not reached"; and "a wireless distribution system comprising: a plurality of remote units distributed in a coverage area to receive wireless signals and to provide the wireless signals through the distribution system to one or more input ports; a plurality of input power monitors operatively connected to one or more of the input ports to determine power levels of the wireless signals received at the input ports; a plurality of variable gain controllers to control the gain of the wireless signals received at one or more of the input ports; a node to combine the wireless signals from the plurality of input ports; a combined power monitor to determine a power level of the signals combined at the node; and a controller to provide control signals to control one or more of the variable gain controllers so that an overflow condition does not occur at the node" with its corresponding method are rejected for the reasons given in the scope of system claims 1-11 as disclosed above.

Art Unit: 2685

Regarding claim 23-31 and 32-36, these claims for "a digital expansion unit, comprising: a plurality of input ports to receive signals from a plurality of digital remote units distributed in a coverage area; a node to digitally combine signals from the input ports; a plurality of input power monitors operatively connected to one or more of the input ports to determine the level of signals received at the input ports, a plurality of gain controllers to adjust the gain of signals received at some or all of the input ports; a combined power monitor to determine the combined signal level of signals combined a t the node; and a controller to provide control signals to control one or more of the gain controllers wherein an overflow condition is avoided for signals combined at the node" and "a wireless distribution system comprising one or more digital expansion units" with its corresponding method are rejected for the reasons given in the scope of system claims 1-11 as disclosed above.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Heidmann et al, Clifford, and Naidu et al. (in PTO 892 attached) disclose systems related to monitor power level and its corresponding technique for use in a wireless distribution system.

Application/Control Number: 10/084,115 Page 7

Art Unit: 2685

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to the New Central Fax number:

(571) 273-8300, (for Technology Center 2600 only)

Hand deliveries must be made to Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (571) 272-7895. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TONY T. NGUYEN
PATENT EXAMINER

.jughlan

Tony T. Nguyen Art Unit 2685 September 29, 2005

alternate Fridays off.